

I claim:

1. A method for capturing and encoding a user attribute in a media signal, the method comprising:

in a media signal capture device, capturing a user attribute of a user of the media signal capture device;

encoding the user attribute into a media signal captured by the media signal capture device.

2. The method of claim 1 wherein the user attribute forms at least part of an auxiliary message, and:

embedding the auxiliary message into the media signal.

3. The method of claim 2 including steganographically embedding the auxiliary message into the media signal such that the message is substantially imperceptible to a human.

4. The method of claim 1 wherein the media signal is an image and the media signal capture device is a camera or scanner.

5. The method of claim 1 wherein the media signal is a sequence of video frames and the media signal capture device is a video camera.

6. The method of claim 1 wherein the media signal is an image, the user attribute is retinal scan data and the media signal capture device is a camera with an eyepiece; and including:

capturing a retinal scan of the user through the eyepiece.

5 *Sub 24* 7. The method of claim 6 including:  
in response to input from the user to capture one or more images, capturing the  
retinal scan of the user through the eyepiece; and  
encoding the retinal scan data into the one or more images taken in response to  
the user input.

8. The method of claim 6 wherein the retinal scan is captured in an image sensor.

10 9. The method of claim 8 wherein the image sensor used to capture the retinal  
scan is the same as the image sensor in the camera for capturing an image into which the  
retinal scan data is embedded.

15 10. The method of claim 6 including:  
hashing a retinal scan image into retinal scan data.

20 ~~11. A media signal capture device capable of encoding a user attribute in a media  
signal captured in the device, the device comprising:  
a user attribute capture unit for capturing a user attribute of a user of the media  
signal capture device; and  
an encoder for encoding the user attribute into a media signal captured by the  
media signal capture device.~~

25 12. The media signal capture device of claim 11 wherein the media signal capture  
device is a digital camera and the user attribute capture unit includes an image sensor.

13. The media signal capture device of claim 12 wherein the image sensor is used  
to capture the user attribute and a subject image into which the user attribute is encoded.

14. The media signal capture device of claim 13 wherein the user attribute is encoded into the subject image in response to user input instructing the media signal capture device to capture the subject image.

5 15. The media signal capture device of claim 11 wherein the encoder is a staganographic encoder for embedding the user attribute into the media signal.

10 16. The media signal capture device of claim 11 wherein the media signal capture device comprises a video recorder.

17. The media signal capture device of claim 16 wherein the user attribute capture unit includes an image sensor.

15 18. The media signal capture device of claim 11 wherein the user attribute is a voice recording.

19. The media signal capture device of claim 11 wherein the user attribute is a retinal scan.

20 20. A method of authenticating a media signal comprising:  
decoding user attribute data encoded in the media signal within a media signal capture device that captured the media signal; and  
comparing the decoded user attribute data with user attribute data computed for a person.

25 21. The method of claim 20 wherein the decoding comprises steganographically embedding the user attribute data in the media signal.

22. The method of claim 20 wherein the user attribute comprises a retinal scan.

25. A computer readable medium on which is stored software for performing the method of claim 20.

ack

10